

Solving Problems Involving Right Triangles

Date: _____

Angle of Elevation-

The angle measured upward between the horizontal and the line of sight.

Angle of Depression-

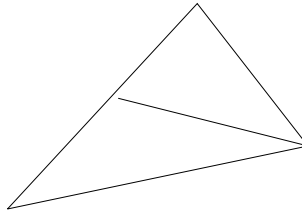
The angle measured downward between the horizontal and the line of sight.

EX: From the top of a cliff 108m above the water, the angle of depression of a boat on the water is 15° . How far is the boat from the foot of the cliff?

EX: If a 27.8 m high flagpole cast a shadow 18.6m long, find the angle of elevation to the sun.

EX: From a point 100m from the foot of a building, the angle of elevation of the top and bottom of the building's flagpole are 42° and 39° respectively. Calculate the height of the flagpole to the nearest hundredth.

EX: Calculate the length of BC.



EX: Calculate the length of x and y.

